Attorney Docket No.: 042564

Amendment Filed: May 25, 2007

REMARKS

Claims 1-6 are pending in the present application. Claims 1-6 are rejected. No new

matter has been entered.

Specification Amendment

The specification has been amended on page 31, Table 2, to correct results for Example

12. Applicants will be submitting a declaration to support the amendment.

Claim Rejections - 35 U.S.C. § 102

Claims 1-6 were rejected under 35 U.S.C. § 102(b) as being anticipated by Majima (WO

01/092417 as evidence by U.S. Patent 6,780,482; citations to Majima below refer to the '482

patent). Favorable reconsideration is requested.

The present invention provides a polyester film having good formability and is free of

whitening (that is, when the film is heat-treated at around melting point or not less than the

melting point, whitening does not occur). Specifically, for example, the present inventors

conducted intensive studies in an attempt to provide a polyester film having good formability

that permits the film to follow expansion of the metal plate without cracking or detaching when a

can is made using a film-laminated metal plate wherein the film is laminated on the metal plate,

and to provide a superior design free from whitening during lamination. (Specification, page 2,

paragraph 2 to page 4, paragraph 1.)

A film having a half value width of crystallization peak of not more than 0.25 during

temperature decrease of the film as measured by a differential scanning calorimeter (DSC) (=a

Attorney Docket No.: 042564

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film having a peak temperature (Tc2) of a recrystallization peak of not less than 180°C) shows

high crystallization rate during a cooling process for temperature decrease from the melting point,

and is not whitened easily. (Specification, page 9, paragraph 2; e.g., Examples 1 - 11.) In the

case of a film made of a single crystalline polyester as in Comparative Example 6, the half value

width of a recrystallization peak during a temperature decrease is not more than 0.25. While the

above-mentioned whitening does not occur, good formability (can making property when the

film is for metal plate lamination) cannot be achieved.

The invention described in Majima is aimed at suppression of whitening of a film.

Majima refers to suppression of whitening of a film when a laminated metal plate is subjected to

a retort treatment wherein the heating temperature is 125°C, (col. 3, lines 5-27; col. 15, lines 30-

60), and is different from the suppression of whitening that occurs in the present invention when

a film is laminated on a metal plate by melting and cooling the film, namely, whitening that

occurs when a film is heated to a high temperature of 280°C and then cooled (present

specification, page 3, paragraph 3; page 4, paragraph 1; table 2). In addition, Majima does not

describe recrystallization peak and half value width of a polyester film during temperature

decrease.

Applicants respectfully submit that Majima does not disclose, either explicitly or

inherently, a film showing "a half value width of recrystallization peak obtained by a differential

scanning calorimeter (DSC) by lowering temperature of not more than 0.25" as recited in claim 1.

Attorney Docket No.: 042564

Amendment Filed: May 25, 2007

The Office Action takes the position that Majima discloses a film meeting the

composition requirements and also using the same process as disclosed in the present application,

and thus, Majima inherently discloses a half value width of recrystallization peak. (Office

Action, page 3.)

As pointed out in the Office Action, Majima describes a method of melting each resin of

PET and PBT in individual extruders and mixing them. (Col. 8, lines 53-64.) However, In a

method wherein two kinds of polyesters are melted in individual extruders and mixed therein,

even if an extrusion temperature in the final extruder (third extruder) of 260°C is used as

suggested by example 13 of Majima, the half value width of recrystallization peak depends on

additional factors such as equipment conditions, e.g., L/D, compression ratio, L/D of

compression part.

The present specification discloses that a film showing the requisite half value width of

recrystallization peak can be produced by forming a film wherein two kinds of polyesters are

dispersed in a comparatively large crystal phase dispersion state ("crude mixture").

(Specification, page 10, line 24 to page 12, line 31.) Majima does not disclose process

conditions for obtaining a film wherein two kinds of polyesters are present in a dispersion state

of a "crude mixture" as described in the present specification.

Thus, the film in Majima does not inherently have the requisite half value width of

recrystallization peak as recited in claim 1.

Amendment Filed: May 25, 2007

Applicants also note that Majima discloses, in the examples, dry blending, melting and

mixing two kinds of polyesters in a single extruder. In example 13 of Majima, a film is formed

by extruding two kinds of polyesters at an extrusion temperature of 260°C. The resin

temperature in the extruder is not more than 265°C and the temperature from the cylinder part to

T-die may be set to a temperature not exceeding 275°C. However, since the extruder is not an

extruder where the screw compression part is of double flight type, a film wherein the two kinds

of polyesters are present in a dispersion state of a "crude mixture" is not formed and a film

having a half value width of recrystallization peak cannot be produced. (See, e.g., specification,

page 13, lines 21-29.)

Therefore, Majima does not disclose, either explicitly or inherently, a film showing "a

half value width of recrystallization peak obtained by a differential scanning calorimeter (DSC)

by lowering temperature of not more than 0.25" as recited in claim 1.

For at least the foregoing reasons, claim 1 is patentable over the cited reference, and

claims 2-6 are patentable by virtue of their dependence from claim 1. Accordingly, withdrawal

of the rejection of claims 1-6 is hereby solicited.

In view of the above remarks, Applicants submit that that the claims are in condition for

allowance. Applicants request such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the

Examiner is requested to contact Applicants' undersigned attorney to arrange for an interview to

expedite the disposition of this case.

Attorney Docket No.: 042564

Amendment Filed: May 25, 2007

If this paper is not timely filed, Applicants respectfully petition for an appropriate

extension of time. The fees for such an extension or any other fees that may be due with respect

to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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AGM/adb

Enclosures: Marked-up copy of Amended Table 2

Clean copy of Amended Table 2

Marked-Up Copy of Table 2

Table 2

					-										_			
Can formability	0	0	•	•	•	•	•	•	•	•	0	•	0	0	0	×	0	⊙ [[⊚]]
Hardness	3Н	3Н	HB	2н	Н	2н	3н	HB	Н	2н	3Н	2н	Н	3н	3Н	3Н	ЭН	Н
Whitening 0°C 290°C	0	•	×	×	×	Δ	0	×	×	×	•	0	×	×	0	0	×	×
Whi 280°C	0	0	×	0	×	0	0	×	Δ	×	0	0	0	0	0	•	×	0
Half value width	0.19	0.18	0.31	0.24	0.39	0.22	0.19	0.41	0.32	0.37	0.12	0.19	0.23	0.24	0.18	0.11	0.31	0.39 0.25
Tc2 (°C)	191	195	179	184	176	186	191	166	179	175	197	191	184	183	194	199	167	181
TmH (°C)	252	254	247	249	252	250	253	251	250	250	251	252	250	260	253	256	Not seen	249
TmL (°C)	221	221	223	222	223	231	221	Not seen	220	218	220	219	186	254	221	Not seen	223	219
n'sp/c	0.94	0.95	0.79	0.84	0.88	0.88	0.93	0.75	0.79	0.82	0.83	0.95	0.82	0.88	0.95	0.71	0.95	0.81
	Example 1	Example 2	Comp. Ex. 1	Example 3	Comp. Ex. 2	Example 4	Example 5	Comp. Ex. 3	Comp. Ex. 4	Comp. Ex. 5	Example 7	Example 8	Example 9	Example 10	Example 11	Comp. Ex. 6	Comp. Ex. 7	Example 12